RADview-HPOV/ATM

Unix-Based Element Management System for ATM Applications

Version 5.2

Installation Guide

RAD
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1. Introduction

The RADview-HPOV/ATM package is provided on three CD-ROMs:

- One CD with RADview-HPOV/Database, which includes Informix
- One CD with RADview-HPOV/Supplement, which includes cluster patches installation.
- One CD with RADview-HPOV/ATM, which includes the RADview application (RAD MIB, RFC list, RADview Installation).

To install the package, follow the order of installation listed in this guide.

Note *After installing RADview, you can find the RADview Release Note file in the directory* ***/opt/MNG/MNGVIEWHP/ReleaseNote***.

2. System Requirements

RADview-HPOV/ATM can be installed only under the Solaris™ 2.8 operating system, according to the following minimum hardware and software requirements:

Hardware Requirements

- SUN ULTRA 10 or SUN Blade 150 workstation
- Free space under /opt: from 1 GB to 2 GB (depending on the amount of applications installed)
- 600 MB for Informix (under any partition)
- 512 MB RAM
- 768 MB swap file
- CD-ROM drive
- Color monitor (17" minimum) supporting 1152 × 900 resolution
- Mouse
- Printer and printer port (optional)

Note *If you do not have enough hard disk space to install Informix, refer to Section 2.4 - Advanced Installation Options.*

Software Requirements

The following software should be installed on your computer **before** installing RADview-HPOV/ATM:

- HP OpenView NNM Version 6.31
- CDE 1.4
- SUN Solaris Version 2.8, February 2002 or later. No other Solaris versions (for example, 2.5.1, 2.6, 2.7) are supported.

Note ***RADview integrates a license server. The license server protects the SW by restricting the installation of the RADview server to a single host/computer and restricting the number of network elements that can be managed by the system (according to the installed RADview license details). In case you install this RADview version as an upgrade to an existing system, you will be required to install a license. Refer to Table 1 or contact your regional RAD sales representative for additional details.***

Table 1 lists the different RAD devices and their respective Equivalent Node Weights (ENW).

Table 1. Equivalent Node Weights

Device	ENW	Device	ENW	Device	ENW
ACE-101	65	FCD-IPM	15	LRS-12	50
ACE-2002	80	FCD-E1M	25	LRS-24	50
ACE-2002E	90	FCD-NTU	5	LRS-52	85
ACE-202	65	FOMi-E3/T3	30	MP-104	15
ACE-50	50	HCD-E1	15	MP-204	25
ACE-52	45	HTU-2	10	MP-2100	75
DXC-30	80	HTU-E1	10	MP-2104	55
DXC-30E	110	IMXi-4	20	MP-2200	80
DXC-STM-1	100	IMX-2T1/E1	5	MP-2100H	70
DXC-8R	60	IPmux-1	20	Optimux-4E1/4T1	25
DXC-10A	60	IPmux-4	70	Optimux-T3	40
FCD-E1A	15	IPmux-8	100	Optimux-T3L	30
FCD-E1L	5	IPmux-16	190	Optimux-XLE1/T1	40

Table 1. Equivalent Node Weights (Cont.)

Device	ENW	Device	ENW	Device	ENW
FCD-E1T1	15	KM-2100	40	PRBi	20
FCD-I	25	LA-104	15	RIC-155	20
FCD-IP/WR	10	LA-110	5	Vmux-2100	300
FCD-IPD	15	LA-140	15	Vmux-110	35

3. Installation Sequence

RADview-HPOV/MDM installation requires the following:

- Cluster Patches Installation
- Informix Installation
- RADview Installation
- Post Installation Steps
- License Installation

Cluster Patches Installation

This bundle provides the recommended patches for support of the Java™ platform, standard edition on the Solaris™ 2.8 operating environment. These patches are considered the most important and highly recommended patches that avoid the most critical system, user or other bugs related to the functionality of the Java™ platform on the Solaris™ 2.8 operating environment. They have been reported and fixed by Sun (more information can be found in CLUSTER_README file under "RADview-HPOV/Supplement for Solaris 8 only version 2.00" CD-ROM).

➤ **To perform the SolarisTM 2.8 patch installation:**

1. Log in as user **root**.
2. Type: **csh**

3. Insert the RADview-HPOV/Supplement for Solaris 8 only ver. 2.00 CD-ROM into the CD-ROM drive.
4. Type: **cd /cdrom/cdrom0/patches**

➤ **To run the install_cluster script:**

1. Type: **./ install_cluster**
2. Reboot the workstation for all patches to take effect.
3. Once the workstation has restarted:
   - Type: **sync**
   - Type: **init 6.**

Installing Informix

➤ **To install Informix:**

1. Log in as user **root**.
   - Type: **csh**
   - Insert the RADview-HPOV/Database CD-ROM into the CD-ROM drive.
   - Type: **cd /cdrom/cdrom0/informix**
   - Type: **./informix.install**
   - When prompted, select the Informix home directory path.

2. When prompted, approve the system reboot. During the Informix installation the /**etc**/**system** file is automatically updated. The installation script prompts you to approve a system reboot, so that the modification can take affect. Make sure you close all running applications before initiating the Informix installation script.
3. Once the system has restarted, log in as user **root**.
4. Type: **csh**

   Type: **cd /cdrom/cdrom0/informix**

   Type: **./informix.install**

Installing RADview Components

The installation takes between five and twenty minutes depending on the hardware platform.

Note *While working with the SUN Solaris 2.8 operating system, no more than 10 different types of RADview applications can be installed on the same workstation. Passing this limit may cause the workstation to freeze when you add an icon to the map. Since this package includes only four applications, the limitation is relevant only when other RADview-HPOV modules are installed.*

➤ **To install the RADview components:**

1. Log in as user **root**, and then:
   - Type: **csh**
   - Type: **cd /tmp**

- Type: **source /<INFORMIXDIR>/.mng164_inf.csh**

Note *Replace <INFORMIXDIR> with your Informix installation directory (for example /export/home/informix).*

2. Insert the RADview-HPOV/TDM Application CD-ROM into the drive.
3. Type: **cd/cdrom/cdrom0/radview**
4. Verify that Informix is running by typing: **onstat –**

   If Informix is online the following message appears:

   INFORMIX-OnLine version 7.31.UDI - -On-Line- -

There are two options for installing the RADview applications:

- Using the command line
- Using the GUI.

Command Line Installation

➤ **To install the RADview applications using the command line:**

1. Type: **./install.rad**
2. Select the products to be installed according to the displayed table. Enter each product's initials separated by spaces.

Note *In case this is an upgrade of an existing RADview installation, the following message will be displayed:*
/opt/MNG/MNGVIEWHP/WAN already exists, Overwrite or Quit [oq] --->
*Type "**o**" to overwrite or "**q**" to quit.*

GUI Installation

➤ **To install the RADview applications using the GUI:**

1. Type: **./install_gui.rad**
2. Click <**OK**>.
3. Select the product/s to be installed and click <**Install**>.
4. Perform one of the following:
   - If the Informix installation directory is correct, click <**Yes**>.
     - Installation continues normally as described in *Installing* an Upgrade on page *11*.
     - If Informix is not running, continue as described in *Informix is not* Running on page *11*.
   - If the Informix installation directory is not correct, click <**No**>.
5. Click <**OK**>.
   - If the path name is correct, Informix Installation continues as described in *Installing* an Upgrade on page *11*.
   - If the path is correct, but Informix is not included, continue as described in *Informix is not* Running on page *11*.
   - If the path name is not correct, a message appears.

6. Click <**OK**>.

Informix is not Running

➤ **If Informix is not running or if it is not installed in the correct directory:**

- Click <**OK**> in the dialog box. Then, follow the instructions described in *GUI Installation* on page *10*.

Installing an Upgrade

➤ **If this is an upgrade of an existing RADview installation:**

- Click <**Overwrite**> or <**Quit**> in the message box that appears.

  When the installation has completed, a message is displayed: **Installation Done**.

Note *In case this is an upgrade of an existing RADview installation, the following message will be displayed:*
/opt/MNG/MNGVIEWHP/WAN already exists, Overwrite or Quit [oq] --->
*Type "**o**" to overwrite or "**q**" to quit.*

Post Installation Steps

After completing RADview installation, the following must be done:

- Create a RADview User. We recommend that you select C as the user's SHELL.
- Set up the user's environment to include the variables needed for the operation of RADview-HPOV. This step has to be performed for each and every user who will use RADview-HPOV. For more information see *Using the RADview Post Installation User Environment Tool* on page *13*.

Before opening RADview-HPOV create a user and set the environment to include the variables needed for RADview, HPOV and Informix.

Defining a User with the Admin tool

➤ **To define a user:**

1. Log in as user **root.**
2. Open a terminal and type: **admintool &**
3. From the **Edit** menu, select **Add**.
4. Specify the user identity values for the following variables:
   - User Name field – Type your first name (for example)
   - User ID field – Use the provided value
   - Primary Group – Use the provided value
   - Secondary Group – Skip

- Comments – Skip
- Login Shell – Select **C**.

5. Set the account security as follows:
   - From the password field, choose **Normal Password**.
     The password must be at least 6 letters long and entered twice.
   - Supply a password and click **OK**.
6. Specify the Home Directory. Specify the path as /**export**/**home**/**<*username*>**.
7. Click **OK** to create the user account.
8. From **File** menu, click **Exit** to close the Admintool dialog box.
9. Log out by clicking **Exit,** on the bottom of the screen, and log in as the user that you have defined.

Using the RADview Post Installation User Environment Tool

The RADview Post Installation User Environment Tool automates all post installation procedures and completes the installation of RADview Unix-based products.

The script is written in csh. Both a new user and an existing user who performs User Environment Tests can use it.

➤ **To use the RADview Post Installation User Environment Tool:**

1. After you create a New User and login again (see *Defining a User with the Admin tool*), type: /**opt**/**MNG**/**MNGVIEWHP**/**bin**/**user_env.csh** and press <**Enter**>.

   The script sets the User Environment; the user files are edited automatically.

2. A message appears for you to logout and re-login (to activate the changes). Run the script again for Environment Tests.

Performing User Environment Tests

When an existing user needs to perform User Environment Tests, such as when RADview application does not function properly, or upon request from RAD Technical Support, the script performs the following "User Environment and Installation" tests according to 'Testing the User Environment' (RADview User Manual):

- HPOV NNM processes status
- Informix variables
- Informix database Online status
- ODBC variables
- ODBC driver
- RADview application path (MNG164_APP_PATH)
- Dynamic Libraries variable (LD_LIBRARY_PATH)
- CDE Language Variable (LANG)
- SHELL variables.
- Informix disk space capacity

➤ **To perform the user environment tests:**

1. Login as the RADview user that you have created in *Defining a User with the* Admin tool.

2. Type: **/opt/MNG/MNGVIEWHP/bin/user_env.csh** and press <**Enter**>.

   The script shows pass/fail messages on the screen, and writes the test results into the file **user_env.log** in the user's home directory.

If you cannot resolve the problem, send the file: **/export/home/<user name>/user_env.log** to RAD Technical Support.

Installing the License

Working With a Remote License Server

This section is relevant only if you have installed the License Server on a different host than the one where the Service Center is located.

Note *The license installation procedure automatically installs both the License Server and the License Manager.*

➤ **To work with a remote License Server:**

- Open the License Service Manager by performing the following procedure:
  - From the **Misc** menu, select **RADview OV**.
  - From the **RADview OV** sub-menu, select **License Service Manager**.
  - From the **Options** menu, select **Client Side Configuration**.
  - In the **Client Side Configuration** dialog box, type in the IP address of the remote host.

Loading the License File

This section is always relevant, regardless of wherever the License Server is installed.

➤ **To load the license file**

- Open the License Service Manager by performing the following procedure:
  - From the **Misc** menu, select **RADview OV**.
  - From the **RADview OV** sub-menu, select **License Service Manager**.
  - From the **File** menu, select **Add License**.

    A browsing dialog box appears.
  - Select the desired license file, and click on **Save**.

4. Advanced Installation Options

Informix Home Directory

During installation, the setup script prompts you to provide the Informix home directory path. The specified path will be the default for the location of the Informix user's home directory and for the Informix database.

It is imperative that you create the Informix home directory before performing the installation. Otherwise the installation procedure exits to the (#) prompt with no explanation.

➤ **To specify a different installation directory for the Informix database:**

- Set the INFORMIXDIR environment variable to the new location.

Note *This must be performed before running the Informix installation script.*

For example, to set the Informix database installation directory to **/opt/informix/database**, while the Informix user home directory is different, type (for csh): **setenv INFORMIXDIR /opt/informix/database**

Note *If the Informix user or Informix group exists on the UNIX machine, the home directory will be used for Informix installation.*

Setting the Database Size

By default, the installation script creates a database and allocates 500 MB in the Informix database installation directory. In addition, Informix tools and ODBC drivers will use approximately 100 MB.

➤ **To change the default database size:**

- Run the installation script with the **-r<new size>** option.

Note *A ratio of 1 MB per managed node should be used while determining the database size.*

For example, if you plan to manage 200 network elements, allocate 200 MB for the database (additional 100 MB will be used by Informix tools and ODBC drivers).

➤ **To run the Informix installation script with the -r option:**

- Type: **./informix.install –r300,000**

RADview-HPOV Installation Directory

By default, the RADview-HPOV installation script will try to install into the /**opt** partition. In case your /**opt** partition lacks sufficient disk space, the installation script will stop and indicate the minimum disk space needed to install the selected components.

In such a case, you can either free the required disk space or create a symbolic link to another location on the disk, which has sufficient disk space.

For example, if you would like to create a symbolic link between /opt and /export/home use the following procedure:

1. Create a new directory named /**export/home/MNG**
2. Type: **ln -s /export/home/MNG /opt/MNG**

5. Uninstalling RADview-HPOV

If RADview does not run after the installation procedure, a possible cause is that some system components were not installed correctly or were installed in an incorrect sequence. In such a case, uninstall RADview using the following procedure:

1. Log in as **su**.

2. Type: **csh**
3. Type: **source /opt/OV/bin/ov.envvars.csh**
4. Type: **source /opt/MNG/MNGVIEWHP/bin/mng164_uninstall.csh**

6. Uninstalling Informix

➤ **To uninstall Informix:**

1. Log in as **su**.
2. Type: **csh**.
3. Type: **setenv INFORMIXDIR <informix home directory>**.
4. Type: **<informix home directory>/i_uninstall**
5. Approve the three questions.
6. Using Admintool, remove the Informix user and group. Remove Informix marked lines from the /**etc**/**system file**. These lines start with:
   *** informix additions – enabling semaphores**

   and end with:
   *** end informix additions**.

7. Further Assistance

The complete RADview-HPOV/ATM User's Manual is found on the Technical Documentation CD. It contains full information on Installation, Setup, Functions, and agent information.

An on-line Help file is available for each installed RADview-HPOV/ATM agent.

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